

JCTD/ACTDs in General

General Bantz J. Craddock US Army, Commander, US European Command, March 5, 2008: "The JCTD program has been an important tool in developing technology solutions, to validate COCOM warfighting shortfalls, and then transitioning these solutions to enduring, sustainable capabilities."

Rear Adm. Dan Davenport, Director, Joint Concept Development and Experimentation, US Joint Forces Command, May 19, 2008: "The work being done in ACTDs and JCTDs across DoD lines up well with the key focus areas in USJFCOM. This program is bringing together like-minded people who are making a difference for those on the battlefield. Warfighters' needs are driving our work."
<http://www.jfcom.mil/newslink/storyarchive/2008/pa051908.html>

Michael Sullivan, Acting Director, GAO, Acquisition and Sourcing Management, Oral Testimony before the HASC Subcommittee on Tactical Air & Land Forces, March 9, 2005: "...when DOD provides strong leadership at an appropriate organizational level, it enables best practices. Designating these programs as ACTDs in their early stages helped sustain attention ...we are encouraged by recent actions taken by DOD to initiate a joint capabilities technology demonstration business process as it is intended to meet joint and coalition forces needs"

Dr. Hans Mark, Director of Defense Research and Engineering, "There are No Substitutes for Defense Research," *Dallas Morning News*, October 2, 2000: "There is a small office on the third floor of the Pentagon that most Americans don't know about. It has an unassuming name – the Advanced Concept Technology Demonstration Program. Yet the office plays a big role in keeping U.S. forces two steps ahead of potential adversaries in a high-stakes competition for technology."

Dr Jacques S. Gansler, Under Secretary of Defense (Acquisition, Technology & Logistics), "Changing Defense," *Armed Forces Journal*, October 1999: "The ACTD program is allowing us to insert selected technologies into operational concepts and evaluate them for their ability to meet the individual warfighters' needs. However, the ACTD program is having a far greater impact than many realize. Within defense, it's enabling not only revolution in military affairs, but also a revolution in business affairs. It's blazing a trail for the future DoD acquisition process."

Joint Precision Airdrop System ACTD

Providing precision parachute drops from high altitudes

Lieutenant General Gary North, US Central Command Air Forces, October 25, 2006: "It's FedEx and Domino's, all at once"
<http://www.defenselink.mil/news/NewsArticle.aspx?ID=1815>

Comprehensive Maritime Awareness & Maritime Automatic Super Track Enhanced Reporting JCTDs

Both enabling a shared picture of global maritime shipping

General Gene Renuart, Commader US Northern Command, 37th IFPA-Fletcher Conference on National Security Strategy and Policy: “We sponsor two Joint Capability Technology Demonstrations (JCTDs) that are ongoing. First, a tool called the comprehensive maritime awareness tool, or CMA. It’s a great product, with great potential ... The second tool provides similar data, but at a highly classified level, and the goal of both of these JCTDs is to fuse information in a way that could be used by a federal agency, a coalition partner’s agency, or our U. S. Military. We really support both of these two JCTDs ...” http://www.northcom.mil/News/Transcripts/092607_a.html

Maritime Automatic Super Track Enhanced Reporting JCTD Providing a network system that automatically tracks global shipping

Users at US Coast Guard, Maritime Intelligence Fusion Center Pacific:

- “The track analysis features are excellent.”
- “Already using MASTER in high interest areas”,
- “Great program so far! Utility -- absolutely”
- “System is able to provide named data better than current systems”

Users at US Northern Command:

- “I was very impressed with its capabilities”
- “‘one- stop-shop’ for identifying maritime threats”
- “Can see this tool being of great use”
- “MASTER was very impressive”
- “Saves large amounts of time”

Users at US Third Fleet, Maritime Intelligence and Analysis Center:

- “MASTER is easier to use, much faster, and provides more information than GCCS.”
- “The icon mechanism is genius; much easier to use than other systems.”
- “MASTER reduces my workload by 25 percent....”
- “Overall, this program has almost everything needed for an intelligence and warning watch-stander.”

Counter-Intelligence Human Intelligence Advanced Modernization Program Intel Operations Now or “CHAMPION” JCTD

Providing technologies, making counter- and human intelligence more efficient

Users in the counter- and human intelligence community:

- “I sure could have used this in Iraq/Afghanistan!”
- “Extremely effective, useful in a field environment as well as in a secure area”
- “I found the system extremely useful for intelligence gathering”
- “So simple I was even able to train my aide to use it”
- “I found the system extremely useful for intelligence gathering”

- “The equipment is extremely portable and effective for both classified and unclassified communications”
- “I can see this system solving various communications shortfalls faced by multiple agencies when having to operate outside of the normal operating environment”

Regional Maritime Awareness Capability JCTD

Providing African nations with a maritime picture in the Gulf of Guinea

General William E. Ward, Commander US Africa Command, March 3, 2008: “Projects such as ...***Regional Maritime Awareness Capability Joint Capability Technology Demonstration*** demonstrate the capabilities of off-the-shelf surveillance technology in shared regional maritime awareness networks. These initiatives will help partner nations address their maritime safety and security challenges.”

<http://www.africom.mil/getArticle.asp?art=1679>

Lieutenant Hamilton Neto Nascimento de Sousa, executive officer with the Sao Tome and Principe Coast Guard, January 30, 2008, “RMAC is a good system that can help the Sao Tome and Principe people improve their search and rescue capability.”

<http://www.africom.mil/getArticle.asp?art=1622>

Commander Vic Bindi, US Naval Forces Europe, West and Central Africa regional planning team head: “It (RMAC) is one of our first initiatives to show how AIS works, how inexpensive it is and how effective it can be”

http://www.ukho.gov.uk/content/corpAttachments/AW/supplement_web.pdf

Pathfinder ACTD

Provided tactical ground units with the hand-launched Raven Unmanned Aerial Vehicle:

Col. John Burke, U.S. Army project manager, UAV Systems, January 2005: “We accelerated this ACTD by two to three years...One of the things I point out with great pride as an acquisition officer is that when Gen. Keane said, ‘I don’t want it to take 20 years,’ we delivered the first Raven in-theater 20 weeks after contract award.”

<http://www3.ausa.org/webint/DeptArmyMagazine.nsf/byid/CCRN-6CCSFL>

Sergeant Frederick McDuffy 9 November 2007: "If you've remapped the route with a Raven, it helps you know, it gives you a better chance that you won't run into an ambush or confront an IED." <http://defence-data.com/current/page38594.htm>

Staff Sergeant Rodney Balancier, US Army, 9 November 2007: “Having Raven means that we don't have to send a patrol outside the wire in order to get the information we want. Sometimes it means that we don't have to risk a life." <http://defence-data.com/current/page38594.htm>

Sergeant Carter USAF, 506th Expeditionary Security Forces Squadron, March 17, 2008
"UAV operators saw people placing improvised explosive devices on the side of a nearby

road... They called in the report, and within a short amount of time a response team was on-scene to check out the situation. Just knowing the fact that we have the power to save lives is a great benefit to working with the Raven."

<http://www.af.mil/news/story.asp?id=123090441>

Staff Sgt. Eugene F. Holman, Company D, 5th Squadron, 73rd Calvary Regiment, August 2008: "What's great is that you can send the Raven out ahead of a convoy and check for activity ...It can really save lives."

<http://www.militarynewsnetwork.com/military-news/military-blog4.htm>

Human Intelligence and Counterintelligence Support Tools ACTD

Provided biometric tools which help identify personnel

Gen. David Petraeus, Commanding General, Multi-National Force-Iraq, *USA Today*, July 13, 2007: "It (Biometric tools) helps enormously ... It enables us to identify individuals connected with various activities."

US Central Command Assistant Chief of Staff for Intelligence, 4 May 2005, "the Marines own Fallujah with biometrics." (Marine Corps Center for Lessons Learned)

Theater Precision Strike Operations ACTD

Provides a system for attacking a multitude of targets, called "Joint Automated Deep Operations Coordination System"

Commander, U.S. Marine Forces Pacific, "JADOCS ... has not only become an integral part of day-to-day operations, but it is a core component of our warfighting C2 capability used by all combatant commands." (*DDR&E Newsletter*, April 2006)

SPARTAN SCOUT ACTD

Provided an unmanned surface vessel for several uses

Rear Admiral James Stavridis, USN, commander Enterprise Carrier Strike Group, "The Next Kitty Hawk," *Defense News*, November 17, 2003: "Today, new tools are emerging across the technology spectrum, and Spartan Scout is one. The ACTD program can put these tools to use faster and enable transformation sooner."

CBRN Unmanned Ground Reconnaissance ACTD

Provided a chemical detecting robot

Captain Julia Dorans, 95th Chemical Company commander, US Army, July 11, 2008: "You can send the CUGR in, and the CUGR does the marking, and then the sampling team goes in right after that. There's less risk of human life or limb."

<http://www.army.mil/-news/2008/07/11/10813-chemical-robot-ready-for-its-in-theater-debut/>

1st Lt. Kathleen Bercume, reconnaissance platoon leader, 95th Chemical Company, July 11, 2008: "You send the (CUGR ACTD) robot in, and if that blows up, you just order another part instead of losing a Soldier," <http://www.army.mil/-news/2008/07/11/10813-chemical-robot-ready-for-its-in-theater-debut/>

Counterproliferation I ACTD

Provided technologies and procedures for attacking hard targets

General Wesley K. Clark, Commander US European Command, Statement before the House Armed Services Committee, February 17, 2000: "...Collateral damage assessments through IMEA and DTRA analysis helped us avoid the potential deaths of 2500+ Serbian civilians," referring to Integrated Munitions Effects Assessment Tools, a product of the ACTD, used in Operation Allied Force (Kosovo)

Lieutenant General Michael A. Canavan, USAF, US European Command chief of staff, *Creating the Defense Threat Reduction Agency*, DTRA History Series, January 2002: "...advantages from advanced technologies that, absent the ACTD program, would still be in development," referring to ACTD products used in Operation Allied Force (Kosovo)

Medium Altitude Endurance ACTD

Provided the Predator Unmanned Aerial Vehicle

President George W. Bush, remarks at the Citadel, December 11, 2001: "Before the war, the Predator had skeptics, because it did not fit the old ways. Now it is clear the military does not have enough unmanned vehicles."

Unmanned Aerial Vehicle ACTDs in General

General Accounting Office, *Unmanned Aerial Vehicles: DoD's Demonstration Approach has Improved Project Outcomes*, August 1999: "By taking an ACTD approach that focuses on mature technology and proves performance and military utility before acquisition, DOD is basing its UAV acquisition decisions on an improved body of knowledge. The approach is also consistent with best commercial practices ..."

Precision/Rapid Counter-Multiple Rocket Launcher ACTD

Provided system for targeting and countering North Korea's Multiple Rocket Launcher

Major General Tommy Franks, Commanding General, Second Infantry Division, 1996: "The soldiers have had a chance to play with it and influence the outcome...this is all about the user being involved up front."

Precision SIGINT Targeting System ACTD

Demonstrated technologies for processing signals intelligence and disseminating threat
an emitters to shooters

Dennis Fitzgerald, National Reconnaissance Office's SIGINT Director, 1996:
"Outstanding ACTD"

Cruise Missile Defense Phase I ACTD

Assessed feasibility of defeating over-the-horizon cruise missiles for joint air defense:

Admiral Mike Boorda, Chief of Naval Operations, message to ACTD participants, March 23, 1996: "'Outstanding' is the only word to describe the resounding success you all achieved in both the advanced concept technology demonstration (ACTD) and enhanced phases of the recently completed Mountain Top demonstrations ... you have set the stage for a revolutionary new way of fighting in the air defense arena."